

# Quiz Tool

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Report Name	Outline Project Specification
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Module	CS39440
Degree Scheme	G600 (Software Engineering)
Date	February 5, 2018
Revision	0.1
Status	Draft

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## 1 Project description

Aberystwyth University currently uses Qwizdom live polling tool during the provision of some lectures and practical sessions. The university operates under a single license forcing lecturers to book sessions before they can use the tool. Due to human nature, session hijacking occasionally occurs to the bemusement of both students and lecturers. For example, students could be shown biology slides half way through their geography lecture.

This project will focus on the design and development of an in-house built Quiz Tool, enabling multiple lecturers to use it at the same time and potentially making Qwizdom redundant.

## 2 Proposed tasks

1. Running within the aber intranet or not 2. External cloud provider vs local debian container 3. Authentication concerns -¿ how to access LDAP from the outside of the university network 4. Technology used 5. Angular 4 investigation 6. Real time nature of the project 7. Continuous delivery 8. Setting up the version control with suitable safe-guards 9. Agile methodology 10. Use of Docker 11. docker-compose vs kubernetes 12. Persistence and backups of the MongoDB container

## 3 Project deliverables

1. Containerised back-end consisting of an Express app with a MongoDB persistence layer 2. Containerised front-end in Angular 4 for lecturers and students 3. Final project